

PHEE ANNUAL CONFERENCE

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The Future of Engineering



By

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CPE- Graduate Engineer seconded from Airbus

What is CPE?

- A registered charity, a company limited by guarantee
- Industry led, Government backed.
- A facilitator, collaborator and coordinator of projects/events with patrons, non patrons and other external organisations.
- A Fundraiser, PR, Marketing, Project Management & Administration and Government interface for Patrons.

Mission

- To ensure that engineering is recognised for the contribution it makes to the nation's wealth and quality of life

ENGINEERING OUR FUTURE

The Campaign has evolved to ensure that

Engineering is recognised for the major

role it plays in our Future on the planet.

PATRONS

Over 30 major industrial companies, representing all sectors, employing over 600,000 people in the UK

Airbus
Alstec Limited
Army Recruiting Group
Avon Lippiatt Hobbs (Contracting) Limited
Aylesford Newsprint
BAE SYSTEMS
Bechtel Limited
BP plc
British Computer Society
British Telecommunications plc
Chartered Institution of Building Services Engineers
Denford Limited
EMTA
Engineering Construction Industry Training Board
Engineering Employers' Federation
Engineering and Technology Board
ExxonMobil
Federation of Environmental Trade Associations
Ford Motor Company Limited
Foster Wheeler Energy Limited
GKN plc
Halliburton KBR
Headstart
Heating and Ventilating Contractors' Association
Imagineering Foundation

Innogy
Institute of Marine Engineering, Science & Technology
Institution of Chemical Engineers
Institution of Electrical Engineers
Institution of Gas Engineers & Managers
Institution of Incorporated Engineers
J C Bamford Excavators Ltd
Jaguar Cars Limited
Lattice Group plc
London Underground Limited
Marconi plc
National Grid Company plc
Ove Arup & Partners International Ltd
Railtrack PLC
Rolls-Royce plc
Royal Academy of Engineering
Royal Air Force
Royal Navy
Shell UK
Smallpeice Trust, The
Syltone plc
Training Publications Limited
Uponor Limited
Vauxhall Motors Limited
Yorkshire Electricity

HOW CURRENT PATRONS SEE THE CAMPAIGN

- Recognition by working in partnership with National Government and others, as illustrated at Congress
- Increased direct publicity and recognition through the media
- Efficient, effective project deliverance
- Addressing the engineering skills shortage at all levels

KEY CAMPAIGN MESSAGES

- **PUBLIC**
Engineering is essential to our quality of life
- **OPINION FORMERS**
Engineering makes a major contribution to the UK economy
- **YOUNG PEOPLE & PARENTS**
Engineering offers a wide range of exciting and rewarding careers
- **INDUSTRY**
Engineering Technology plays a major role in maintaining your competitive edge
- **ENGINEERS**
Be positive role models and deliver engineering excellence

CPE NETWORKS

East Midlands

Eastern

North East

North West

Northern Ireland

Scotland

South East

- Hampshire & Isle of Wight
- London
- Surrey Sussex Kent
- Thames Valley

South West

Wales

West Midlands

Yorkshire and Humberside

CAMPAIGN OPERATIONS

- Project-based campaign
- Best Industrial practice project control
- Main Board (70% Industry)
- Planning groups (six)
- Partnerships and joint ventures
- Lean and Mean team (only 2 core staff)
- Driven via Industrial support in the provision of seconded staff

PLANNING GROUPS

CAREERS

HEALTH

MEDIA

RESEARCH & MEASUREMENT

SUSTAINABILITY

TRANSPORT

What is CPE doing?

- CPE has been addressing the shortage of engineering skills at all levels.
- CPE has been part of various projects since its launch in 1997. 2000-2001 Projects:-

Outreach/Shopping Centre
Denford CAD/CAM
Medway Robot Wars
Todays Engineers
Netprojects
Science Week - Imperial College
Formula Schools
EES Wales
Crawley Careers & Technology
Event
Greenpower 2001
CPE Congress
REME Open Day
Duxford Techlinks 2001
TWL 2001
Rolls-Royce Open Days
SECC 2001
Sheffield PEI Event
Formula Student

FuTEC 2001
Town & Country Festival 2001
Science Year Launch
National Grid Open Days
Marshalls Open Day
It's Not Rocket Science
Metals Engineering Event 2001
Nth Kent Careers Convention
Smallpeice Trust Careers Event
Engineering Team Challenge
EEESTA Prestige Lecture
Coventry Careers Event
Engineering in Health Week
De Montford Tech Challenge
Sci-Sport Lecture Series
Chemistry Week
SET for Britain
EMPEI Prestige Lecture
CENTRA Teachers Conference

2002 Projects

Airbus West of England Event
ASE Conference 2002
BA Festival of Science
BETT 2002
Congress 2002
Camarthen Careers Event
Crawley Careers Event
Cumbria Careers Event
Engineering in Health Week
Engineering Professors' Council Conference
Facing the Future Conference
Farnborough
FuTEC 2003
Greenpower 2002
Humberside HETA Event
Imagineering
Kingsbury Science Fair
Motor Show
North West Skills Festival (Prince's Trust)
PAWS
Robot Show
Science Week – Imperial College
Science Year On Tour
Swansea Careers Event
Today's Engineers
TWL Tour 2002
Website



Working In Partnerships

Science Year On Tour



- Science Year
- EPSRC
- DTI
- SETNET
- NEBPN



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Projects

- Getting people involved
- Fostering engineering skills



Engineering in Health Week



Ford Greenpower

- Fun and exciting
- Challenging

Projects



Engineering across generations!



Bringing girls into Engineering

Projects

- Strong industry buy-in
- Using role-models
- Opening doors



Flying Start Challenge



TWL 2001